

Product Information Sheet for HM-765

***Peptostreptococcaceae* sp., Strain OBRC8 (Deposited as *Eubacteriaceae* bacterium, Strain OBRC8)**

Catalog No. HM-765

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Clostridiales*, *Peptostreptococcaceae*

Species: *Peptostreptococcaceae* sp. (HM-765 was deposited as *Eubacteriaceae* bacterium; however the depositor's 16S ribosomal RNA gene sequence and the 16S ribosomal RNA gene sequence obtained from HM-765 align more favorably with *Peptostreptococcaceae* sp.)¹

Strain: OBRC8

Original Source: *Peptostreptococcaceae* sp., strain OBRC8 was isolated from human subgingival plaque.¹

Comments: *Peptostreptococcaceae* sp., strain OBRC8 (HMP ID 1143) is a reference genome for [The Human Microbiome Project](#) (HMP). HMP is an initiative to identify and characterize human microbial flora. The complete genome of *Peptostreptococcaceae* sp., strain OBRC8 was sequenced at the [J. Craig Venter Institute](#) (GenBank: [ALNKK00000000](#)). Strain OBRC8 represents a novel genus and species based on the 16S sequence, the proposed name is *Peptoanaerobacter stomatis*.¹

Note: HMP material is taxonomically classified by the depositor. Quality control of these materials is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material.

Members of the family *Peptostreptococcaceae* are facultative anaerobic, Gram-positive cocci or filamentous rods that are part of the normal flora of humans and animals found in the mouth, upper respiratory and gastrointestinal tracts, female genitourinary system, and skin. They have been implicated in clinical infections on rare occasions.²

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Modified Trypticase-Yeast Extract (TY) medium supplemented with 10% glycerol.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

HM-765 was packaged aseptically in cryovials. The product is

provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:

Media:

Trypticase-Yeast Extract (TY) broth¹ or equivalent

Tryptic Soy agar with 5% defibrinated sheep blood or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Anaerobic

Propagation:

1. Keep vial frozen until ready for use, then thaw.
2. Transfer the entire thawed aliquot into a single tube of broth.
3. Use several drops of the suspension to inoculate an agar slant and/or plate.
4. Incubate the tube, slant and/or plate at 37°C for 2 to 5 days.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Peptostreptococcaceae* sp., Strain OBRC8 (Deposited as *Eubacteriaceae* bacterium, Strain OBRC8), HM-765."

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

1. Sizova, M. V., et al. "High-Quality Draft Genome Sequences of Five Anaerobic Oral Bacteria and Description of *Peptoanaerobacter stomatis* gen. nov., sp. nov., a New Member of the Family *Peptostreptococcaceae*." Stand. Genomic Sci. 18 (2015): e-Collection 2015. PubMed: 26221418.
2. Murdoch, D. A. "Gram-Positive Anaerobic Cocci." Clin. Microbiol. Rev. 11 (1998): 81-120. PubMed: 9457430.
3. Sizova, M. V., et al. "New Approaches for Isolation of Previously Uncultivated Oral Bacteria." Appl. Environ. Microbiol. 78 (2012): 194-203. PubMed: 22057871.

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